

Title: **INTEGRATED SYSTEM FOR QUICKLY AND ACCURATELY  
IMAGING AND MODELING THREE DIMENSIONAL OBJECTS**

**Abstract**

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An integrated system generates a model of a three-dimensional object.

A scanning laser device scans the three-dimensional object and generates a point cloud. The points of the point cloud each indicate a location of a corresponding point on a surface of the object. A first model is generated, responsive to the point cloud, that generates a first model representing

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constituent geometric shapes of the object. A data file is generated, responsive to the first model, that can be inputted to a computer-aided design system.